App. F. IX-4

Previous References. (1942-3. War) War File No. 4-1(2).
Serial Nos. 1&2

Later References.

P-10

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. Two only

Part B for August 1942.

SUBJECT.

Purchase of equipment to A.R.P.
Purchase of Kirloskar DSM Type
Single Suction Centrifugal Pumps
(3 Pumps at Rs 572/ each)

J.M.Krishnan.
6.8.42

161/W

Purchase of Kirloskar "DSM" Type single suction Centrifugal Pumps.

General and Revenue Secretariat

W File No. 4 of 1942-3. [App. F. III—2

Serial No. 1

From The I G of Police.

ARPS 9/42-43 dt 9th June 42 requesting sanction to the purchase of 3 pumps including one already obtained and kept in ARP Hd Qrs at a cost of Rs 572/- each, the cost being met out of the lumpsum advance.

Submitted for perusal and orders with a draft G.O for approval

OFFICE OF THE MINISTER FOR LAW
JUL 14 1942
No. 527

11 JUL 19.. GOVT. OF MYSORE.

U.U.No. 175
13 JUL.

Issue 275-6 dt 16th June 42
to ee ISP
Comptr & Govt

B

NOTE—Contn. Sheet.

WD 04155—GPB—55,000—23-10-41

W 4-42-1 161/W.

POLICE DEPARTMENT.

Tel. Address: "POLICE" PHONE No. 2108.

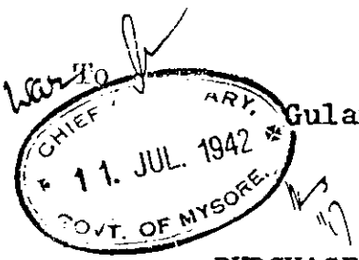
When replying please quote No. A.R.P.S.

OFFICE OF THE INSPECTOR-GENERAL OF POLICE IN MYSORE,

Dated Bangalore, 9th July, 1942.

ARP. S. 9/42-3.

FROM M. SESHADRI, Esq., M.A.,
Inspector-General of Police in Mysore,
Bangalore.



To Gulam Mohiyuddin Mehkri, Esq., B.A., LL.B.,
Chief Secretary to the Government of His Highness
the Maharaja of Mysore, BANGALORE.

PURCHASE OF KIRLOSKAR "DSM" TYPE SINGLE SUCTION CENTRIFUGAL PUMPS.

SIR,

I have the honour to state that the A.R.P. Controllers of Kolar Gold Field, Bhadravati and Davanagere have requested for the supply of Trailer Pumps for Fire-fighting purposes. On account of the present International situation and shipping difficulties, as also of their heavy cost, it has been found rather difficult to secure trailer pumps required for the most important places in the State like Bangalore, Mysore, Kolar Gold Field and Bhadravati and it will not be possible to supply trailer pumps to other places in the State. So far, in addition to the indent made on Government of India for the supply of Trailer Pumps, orders have been placed for the supply of 6 Trailer Pumps viz., 3 from Messrs. William Jacks & Co., London and 3 from Messrs. Volkart Bros. Madras and the Trailer Pump ordered for from Messrs. Simpson & Co., Madras, Bangalore Branch, has since been supplied.

To meet the demands of other important places as far as possible and to get over the difficulty that is being experienced to obtain Trailer Pumps, I propose to purchase 3 Kirloskar Centrifugal Pumps, whose specifications are noted in the enclosed illustrated bulletin at a cost of Rs.572/- each and in anticipation of kind sanction, one pump has already been obtained from the Company. These pumps can be got mounted on powerful cars as they have done in the Civil & Military Station or on lorries for use as fire-fighters and are found to be economical and efficient.

I request .....

I request that sanction of Government may kindly be obtained for the purchase of 3 pumps, including the one already obtained and kept in A.R.P. Headquarters, the cost being met out of the A.R.P. allotment for the current year.

I have the honour to be,
Sir,
Your most obedient servant,

KVN.

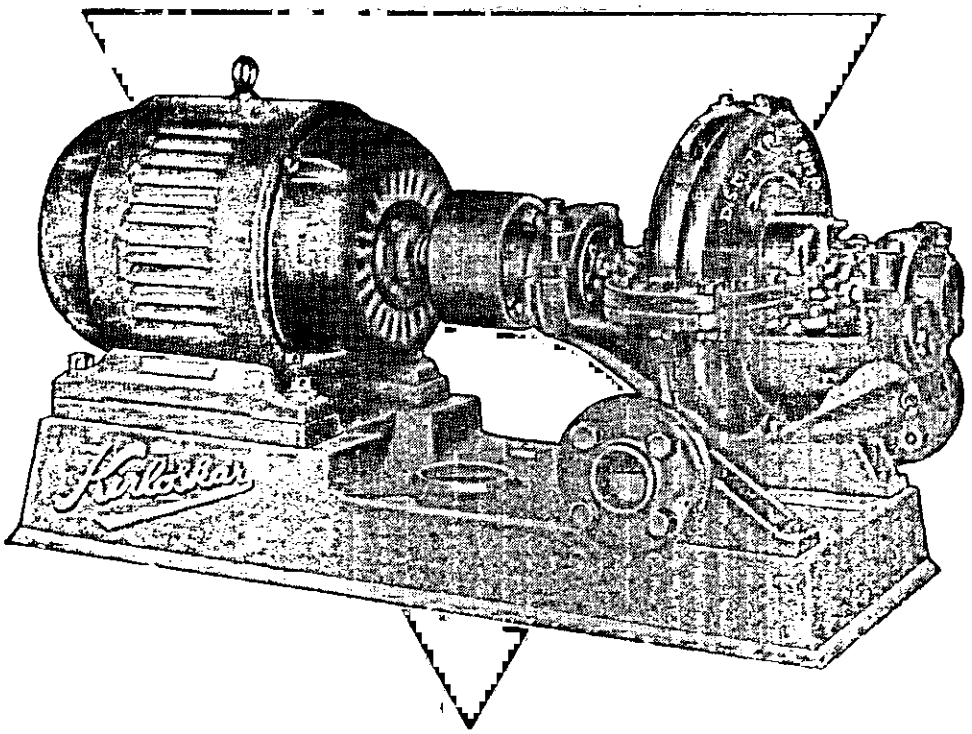
INSPECTOR GENERAL OF POLICE.

Kirloskar

TYPE DSM

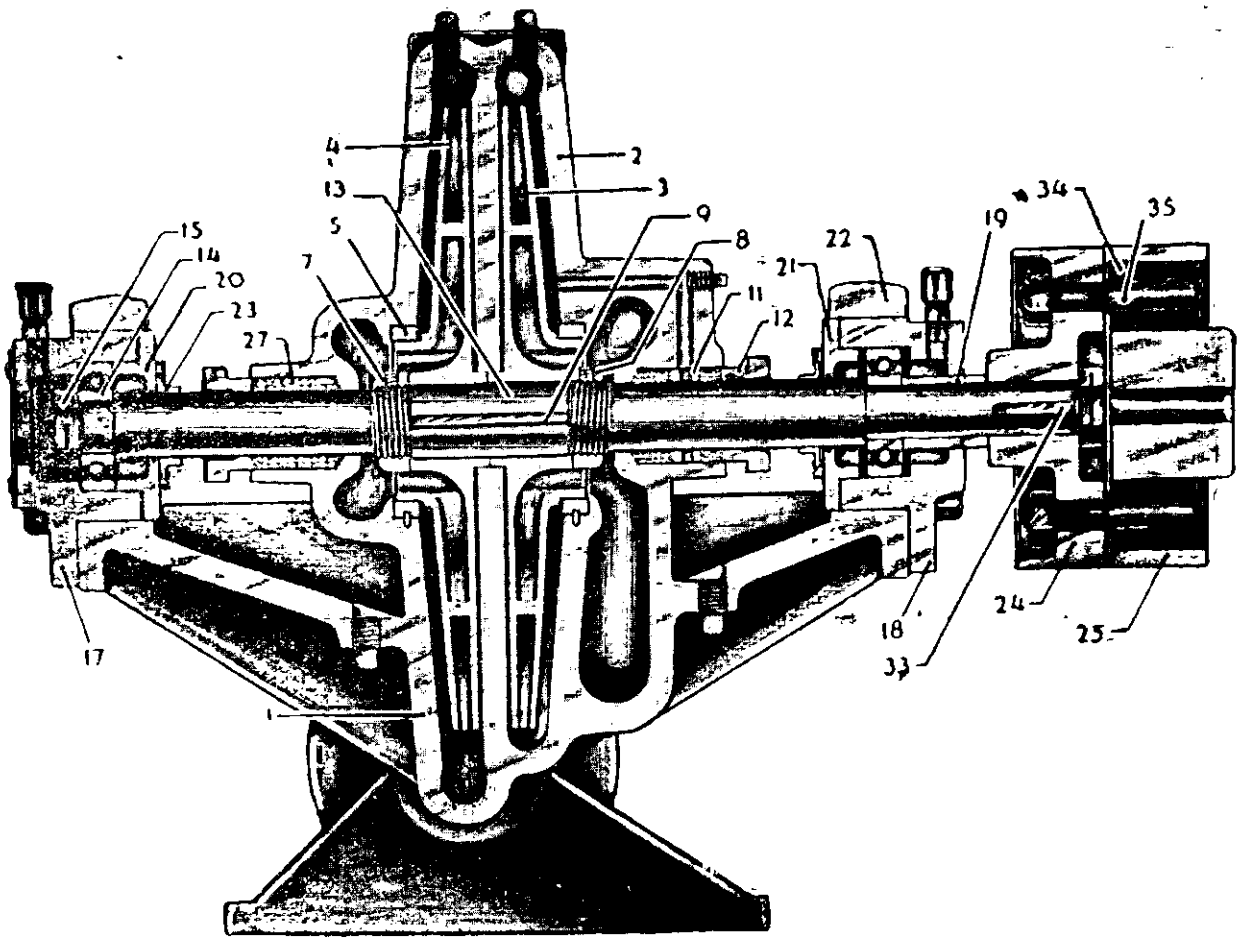
Ball-Bearing
Horizontally-Split Case
Two Stage, Single Suction,

CENTRIFUGAL PUMPS



Furnished with stainless steel shaft and bronze impellers as standard equipment. Adaptable to electric motor, gas or oil-engine or belt drive.

Kirlosk ar Two Stage, Horizontally Split Case Pump Type DSM



Sectional View of DSM Pump

The Kirloskar DSM type Centrifugal Pumps are single suction two stage pumps designed for pumping liquids against high heads.

Each stage of the casing has a spiral volute and between stages the liquid flows from one volute into an exceptionally long diffusion nozzle and then into a long sweep return bend to the inlet passage of the second stage. This construction results in maximum practical regain of pressure between stages as the liquid is directed along smooth flow lines without sudden changes in velocity.

These pumps are supplied in four sizes, and are furnished with stainless steel shafts with ball bearings. They are adaptable to electric motors or engines or for belt drives.

SPECIFICATIONS

CASING: The casing is of high tensile cast iron. It is of the volute type, split on the horizontal centre line with the suction and discharge nozzles as well as the bearing brackets cast integral with the lower half. Removal of the upper half of the casing gives complete access to the interior of the pump without disturbing the pipe connections or pump alignment.

IMPELLER: The impellers are of the single suction, enclosed, non-overloading type. They are placed back to back to balance the end thrust without the use of extra seal rings or other balancing devices. Impellers are made of bronze, machined and polished all over, statically and hydraulically balanced. They are keyed to shaft, secured by lock nuts and are adjustable for position.

SEAL RINGS: Impeller seal rings are made of bronze. They are designed with large wearing surface with diameter at wearing surface reduced to minimum and are firmly secured in the casing by dowel pins.

SHAFT: The shaft is of stainless steel, ground to accurate dimensions and smooth surface. It is designed for extra stiffness to avoid all critical speeds in operation, and is threaded for impeller lock nuts.

STUFFING BOXES: are extra deep, being designed for six rings of packing in addition to the water seal cage with which each stuffing box is provided. Under each box is a drip pocket with tapped drain outlet.

GLANDS: are of the hinge bolted type, split for easy removal and fastened together with special cap screws.

BEARINGS: Both the outboard and inboard ball bearings are of the deep groove type, precision grade, with cartridge mounting permitting the removal of shaft without exposing or disturbing the bearing assembly. They are of extra large capacity for both radial and thrust loads, and are locked to the shaft with nut and positive nut-lock. The outboard bearing is confined rigidly in the bearing housing to take the end thrust, while the inboard bearing is set with sufficient clearance to allow for shaft expansion. Each bearing is designed for grease lubrication and is provided with a water slinger to prevent leakage from the stuffing box into the bearing. A grea e cup is furnished for each bearing.

BASE: is of cast iron, of rigid construction, and reinforced against deflection. It has raised lip, grouting hole, machined levelling pads and a tapped drain outlet.

SHOP TEST: Each pump is given a running and hydrostatic test and must meet the performance for which it is specified.

INTERCHANGEABILITY OF PARTS: This is guaranteed by approved manufacturing methods, close tolerances and careful inspection.

Tables of outputs of DSM Pumps at 1450 R.P.M.

DSM No. 1 2"x2½"

Impeller	Total head in feet	80	90	100	110	120	130	140	150	160	170	180	185	Size of Motor
A	G.P.M.					120	115	108	105	94	85	62	45	10 H.P.
	B.H.P.					9·8	9·8	9·6	9·5	9·2	8·8	7·8	7·0	
B	G.P.M.			110	108	98	87	70	46					7½ H.P.
	B.H.P.			7·5	7·4	7·2	6·9	6·2	5·2					
C	G.P.M.	92	82	65	48									5 H.P.
	B.H.P.	4·9	4·7	4·1	3·5									

DSM No. 2 2½"x3"

Impeller	Total head in feet	80	90	100	110	120	130	140	150	160	170	180	190	Size of Motor
A	G.P.M					155	150	142	132	122	108	88	40	12½ H.P.
	B.H.P.					12·1	12·1	11·7	11·4	11·1	10·5	9·5	7·1	
B	G.P.M.			148	142	138	122	106	82					10 H.P.
	B.H.P.			9·8	9·7	9·5	9·2	8·5	7·5					
C	G.P.M.	140	132	120	106	80								7½ H.P.
	B.H.P.	7·4	7·3	7·1	6·7	5·8								

DSM No. 3 3"x4"

Impeller	Total head in feet	110	120	130	140	150	160	170	180	190	200	210	Size of Motor
A	G.P.M.					295	285	270	240	210	195	155	25 H.P.
	B.H.P.					23·8	23·4	23·1	22·5	21·5	20·8	17	
B	G.P.M.			275	255	210	165	125					20 H.P.
	B.H.P.			19·2	18·8	17·8	15·5	13·5					
C	G.P.M	265	210	150									15 H.P.
	B.H.P.	14·1	13·3	11·5									

DSM No. 4 4"x5" ‡

Impeller	Total head in feet	80	90	100	110	120	130	140	150	160	180	200	220	Size of Motor
A	G.P.M.							640	610	575	500	400	240	50 H.P.
B	G.P.							600	575	525	425	280		40 H.P.
C	G.P.M.					530	500	460	400	360				30 H.P.

‡ The figures given are calculated. Tested data will be supplied on specific inquiry.

KIRLOSKAR BROTHERS, Ltd.

KIRLOSKARVADI,

Dist. SATARA (India).

KIRLOSKAR BROTHERS LTD. BRANCH, BANGALORE

Kirloskar Press 6000-11-40

G. R. S. App. F VI—G 2]

SUBJECT .....

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.....

Diary. No of letter replied to.....

General and Revenue Secretariat

( )

the *193* .

Date of issue 16.7.1942

Signed by Mr. S.K.V.

May this be—

(i) printed?

(ii) treated as a standing order?

(iii) published in the Gazette, English Part?

(iv) translated?

(v) placed at the disposal of the press?

(vi) published in the Gazette, Kannada Part?

Section War

File No. 4-42

Serial No. 2

Proceedings of the Government of His Highness the Maharaja of Mysore.

Read— Letter no ARP. S. 9/42-43 & 9th June 42 from the ISP requesting sanction, in the circumstances stated, to the purchase of 3 Kirloskar Centrifugal pumps at a cost of Rs 572/- each and stating that one pump has already been obtained from the Govt in anticipation of sanction.

Order thereon.—No. 6734-275-b/W dated 16-7-42 sanctioning the cost being met out of the lumpsum provision placed at the disposal of the ISP.

ISP
Comptr to Govt

In lieu Chief Sy to Govt

PROCEEDINGS OF THE GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE.

- - - -

READ:-

Letter No.A.R.P.S.9/42-43 dated the 9th July 1942 from the Inspector-General of Police in Mysore requesting sanction in the circumstances stated, to the purchase of three Kirloskar Centrifugal Pumps at a cost of Rs.572/- each and stating that one pump has already been obtained from the Company in anticipation of sanction.

- - - - -

ORDER NO. 275-6/W. 4-42-2.

Dated, Bangalore, the 16th July 1942.

Sanctioned, the cost being met out of the lumpsum advance placed at the disposal of the Inspector-General of Police.

For Chief Secretary to Government.

To

The Inspector-General of Police in Mysore.

The Comptroller to Government.

Spare

PROCEEDINGS OF THE GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE.

READ:-

Letter No.A.R.P.S.9/42-43 dated the 9th July 1942 from the Inspector-General of Police in Mysore requesting sanction in the circumstances stated, to the purchase of three Kirloskar Centrifugal Pumps at a cost of Rs.572/- each and stating that one pump has already been obtained from the Company in anticipation of sanction.

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For Chief Secretary to Government.

To

The Inspector-General of Police in Mysore.

The Comptroller to Government.